

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

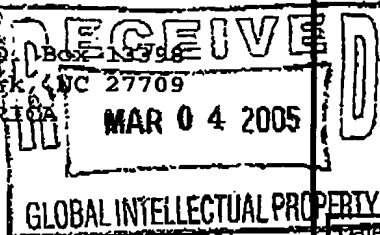
GLAXOSMITHKLINE

Attn. Levy, David J.

Five Moore Drive, P.O. Box 13798

Research Triangle Park, NC 27709

UNITED STATES OF AMERICA



NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference

PU4831WO

Date of mailing
(day/month/year)

24/02/2005

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US2004/018456

International filing date
(day/month/year)

09/06/2004

Applicant

SMITHKLINE BEECHAM CORPORATION

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IE/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
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Authorized officer

Angela Lopez Navarro

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PU4831WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/018456	International filing date (day/month/year) 09/06/2004	(Earliest) Priority Date (day/month/year) 10/06/2003
Applicant SMITHKLINE BEECHAM CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 11 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**1-AMINONAPHTHALENES AS MODULATORS OF ANDROGEN, GLUCOCORTICOID, MINERALOCORTICOID
AND PROGESTERONE RECEPTORS**

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C211/59 C07C211/60 C07C215/16 C07C229/68 C07D295/13
 A61K31/04 A61K31/136 A61K31/277 A61K31/4453 A61P5/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312536 retrieved from XFIRE Database accession no. 9508573 abstract & MOLECULES, vol. 7, no. 12, 2002, pages 885-895,	1,3,6, 10-13
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312537 retrieved from XFIRE Database accession no. 8221473 abstract -/-	1,3,6,7, 10-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

7 January 2005

Date of mailing of the international search report

24/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5816 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040. Tx. 31 651 epo nl.
 Fax: (+31-70) 340-3016

Authorized officer

Cooper, S

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	& CHEM. PHARM. BULL., vol. 46, no. 8, 1998, pages 1265-1273, DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312538 retrieved from XFIRE Database accession no. 7464824 abstract & J. MED. CHEM., vol. 38, no. 26, 1995, pages 5051-5065,	1,3,6,7, 10-13
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312539 retrieved from XFIRE Database accession no. 7243397, 7223516 abstract & J. MED. CHEM., vol. 38, no. 8, 1995, pages 1344-1354,	1,3,6,7, 10-13
X	J. DONALD ALBRIGHT ET AL: "Potential Antiatherosclerotic Agents. 3. Substituted Benzoic and Non Benzoic Acid Analogues of Cetaben" J. MED. CHEM., vol. 26, no. 10, 1983, pages 1393-1411, XP002312531 Scheme V; Table IV, compound 84	1-3,6,7, 10-13
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312540 retrieved from XFIRE Database accession no. 5747353, 3281950 abstract & CHEM. PHARM. BULL., vol. 32, no. 10, 1984, pages 3968-3980,	1,3, 10-13
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312541 retrieved from XFIRE Database accession no. 2803028 abstract & J. PHARM. SCI., vol. 83, no. 2, 1994, pages 219-221,	1-3, 10-13
	-/-	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>YI-JEN SHUE ET AL: "Direct palladium(0)-catalyzed amination of allylic alcohols with aminonaphthalenes" TETRAHEDRON LETTERS, vol. 44, no. 7, 10 February 2003 (2003-02-10), pages 1481-1485, XP004405249 Table 2, compounds 1c,3c,4c,1d,3d,4d,1f,3f</p>	1,2,7
X	<p>IRINA A. BALOVA ET AL: "A one-pot synthesis of 1-arylalka-1,3-dienes by sequential acetylene zipper and Sonogashira reactions" TETRAHEDRON LETTERS, vol. 44, no. 1, 1 January 2003 (2003-01-01), pages 107-109, XP004397130 Page 108: compounds 7a and 8a and starting aryl iodide</p>	1-3
X	<p>YI XIAO AND XUHONG QIAN: "Novel highly efficient fluoroionophores with a peri-effect and strong electron-donating receptors: TICT-promoted PET and signaling response to transition metal cations with low background emission" TETRAHEDRON LETTERS, vol. 44, no. 10, 3 March 2003 (2003-03-03), pages 2087-2091, XP004410064 Compounds A1,A2,A3,A4</p>	1-3,6,7
X	<p>XUHONG QIAN AND YI YIAO: "4-Amino-1,8-dicyanonaphthalene derivatives as novel fluorophore and fluorescence switches: efficient synthesis and fluorescence enhancement induced by transition metal ions and protons" TETRAHEDRON LETTERS, vol. 43, no. 16, 15 April 2002 (2002-04-15), pages 2991-2994, XP004345946 Page 2992: Compounds E, H1-H4,G</p>	1-3,6,7
X	<p>EDWARD F. ELSLAGER ET AL: "Synthetic Schistosomicides. VI. 4-Substituted 1-(Dialkylaminoalkylamino)naphthalenes" J. MED. CHEM., vol. 7, 1964, pages 658-662, XP002312532 Page 660, Table I; Chart II, compound VIII; compounds XVIIIa,b</p>	1-3,5-7

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312542 retrieved from XFIRE Database accession no. 2732070 abstract & J. CHEM. SOC., 1961, page 4861,</p>	1-3
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312543 retrieved from XFIRE Database accession no. 2728953 abstract & J. CHEM. SOC., 1964, page 1183,</p>	1-3
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312544 retrieved from XFIRE Database accession no. 2726752 abstract & J. HETEROCYCL. CHEM., vol. 31, no. 6, 1994, pages 1413-1416,</p>	1,3,4
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312545 retrieved from XFIRE Database accession no. 280564, 1023645, 1020947 abstract & J. INDIAN CHEM. SOC., vol. 46, 1969, pages 115-118,</p>	1,3
X	<p>SYDNEY ARCHER ET AL: "4-(AMINOALKYL)AMINO-1,2-DIMETHOXYNAPHTH ALENES AS ANTIMALARIAL AGENTS" J. MED. CHEM., vol. 23, 1980, pages 516-519, XP002312533 Compounds 4a-4d, 6, 16, 17a, 17b; paragraph bridging pp.517,518.</p>	1,3,5-7, 10-13
X	<p>GB 1 086 988 A (GEVAERT PHOTO PROD NV) 11 October 1967 (1967-10-11) page 4, line 17</p>	1
X	<p>DE 19 54 584 A (CHINOIN GYOGYSZER ES VEGYESZET) 14 May 1970 (1970-05-14) claims 1,2; examples 7,12</p>	1-3

-/-

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312546 retrieved from XFIRE Database accession no. 641096 abstract & J. ORG. CHEM., vol. 37, 1972, pages 3248-3252,</p>	1,2
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312547 retrieved from XFIRE Database accession no. 409369 abstract & J. MED. CHEM., vol. 22, 1979, pages 134-150,</p>	1,3
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312548 retrieved from XFIRE Database accession no. 318879 abstract & J. PRAKT. CHEM., vol. 60, no. 2, 1899, page 193,</p>	1,3
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312549 retrieved from XFIRE Database accession no. 311805 abstract & GAZZ. CHIM. ITAL., vol. 17, 1887, page 412,</p>	1,2
X	<p>DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312550 retrieved from XFIRE Database accession no. 2013744 abstract & J. ORG. CHEM., vol. 38, 1973, pages 2838-2842,</p>	1-3,6,7
	-/-	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/011824 A (SQUIBB BRISTOL MYERS CO ; SUN CHONGQING (US); AUGERI DAVID (US); HAMAN) 13 February 2003 (2003-02-13) Page 50, line 24; page 55, line 8; page 62, line 4; page 63, line 21 - page 64, line 2.	1-3
A	claims 1-16	14-17
X	WO 00/42031 A (BAYER AG) 20 July 2000 (2000-07-20) Page 123, line 23; page 128, lines 7,8; page 163, lines 13,14.	1-3
A	page 1, lines 5-7; claims 1-8	14-17
X	WO 02/24702 A (BALOG JAMES AARON ; PICKERING DACIA A (US); SQUIBB BRISTOL MYERS CO (U) 28 March 2002 (2002-03-28) Page 173, line 16 - page 174, line 7; page 178, lines 17-23	1-3
A	page 56, line 24 - page 57, line 7; claim 1	14-17
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312551 retrieved from XFIRE Database accession no. 6393231, 8482292 abstract & PHYS. CHEM. CHEM. PHYS, vol. 2, no. 5, 2000, pages 981-992,	1-3,6,7
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002312552 retrieved from XFIRE Database accession no. 3457249, 3464670, 3495040 abstract & RECL. TRAV. CHIM. PAYS-BAS, vol. 50, 1931, pages 681-695,	1,2
X	G. BARTOLI ET AL: "Reduction of Nitronate Adducts from RMgX and 1-Methoxy-4-nitro-naphthalene to Oximes or Amines by Trivalent Phosphorus Reagents" TETRAHEDRON, vol. 40, no. 18, 1984, pages 3437-3442, XP002312534 Page 3438: Compounds 6a-c,6e	1

-/-

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>NIGEL J. BUNCE AND STEPHEN R. CATER: "Photosubstitution of 1-Methoxy-4-nitronaphthalene with Amine Nucleophiles: Dual Pathways" J. ORG. CHEM., vol. 52, 1987, pages 4214-4223, XP002312535 Scheme I; Compounds 2 on p.4216; compounds 3 on p.4217; Experimental section -----</p>	1-3

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 16 and 17 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1086988	A	11-10-1967	NONE	
DE 1954584	A	14-05-1970	AR 192865 A1	21-03-1973
			AR 197371 A1	05-04-1974
			AT 297698 B	10-04-1972
			AT 297699 B	10-04-1972
			AT 295524 B	10-01-1972
			CA 960217 A1	31-12-1974
			CH 542230 A	30-09-1973
			CH 539648 A	31-07-1973
			CH 537409 A	31-05-1973
			DE 1954584 A1	14-05-1970
			FI 51353 B	31-08-1976
			FR 2024805 A5	04-09-1970
			GB 1286315 A	23-08-1972
			IL 33292 A	30-04-1973
			NL 6916638 A	11-05-1970
			NO 129464 B	16-04-1974
			PL 80326 B1	30-08-1975
			SE 7414477 A	18-11-1974
			SE 7414478 A	18-11-1974
			SU 465792 A3	30-03-1975
			US 3775409 A	27-11-1973
WO 03011824	A	13-02-2003	EP 1414795 A1	06-05-2004
			WO 03011824 A1	13-02-2003
			US 2003055094 A1	20-03-2003
			US 2004092559 A1	13-05-2004
WO 0042031	A	20-07-2000	AU 2708700 A	01-08-2000
			BG 105761 A	29-03-2002
			BR 9916999 A	30-10-2001
			CA 2359562 A1	20-07-2000
			CN 1337955 T	27-02-2002
			CZ 20012530 A3	13-02-2002
			EP 1144396 A2	17-10-2001
			HU 0105134 A2	29-04-2002
			ID 30514 A	13-12-2001
			JP 2002534517 T	15-10-2002
			NO 20013318 A	30-08-2001
			SK 10032001 A3	09-05-2002
			TR 200102041 T2	21-12-2001
			WO 0042031 A2	20-07-2000
			US 6353006 B1	05-03-2002
			ZA 200105253 A	05-09-2002
WO 0224702	A	28-03-2002	AU 6994301 A	02-04-2002
			AU 8821301 A	08-01-2002
			BG 107675 A	31-12-2003
			BR 0113980 A	24-06-2003
			CA 2413417 A1	03-01-2002
			CA 2423071 A1	28-03-2002
			CN 1454083 T	05-11-2003
			CZ 20024214 A3	16-04-2003
			CZ 20030780 A3	14-01-2004
			EP 1319007 A1	18-06-2003
			EP 1299094 A2	09-04-2003
			HU 0303172 A2	29-12-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0224702	A	HU 0400455 A2	28-06-2004
		JP 2004509072 T	25-03-2004
		JP 2004509895 T	02-04-2004
		NO 20026194 A	26-02-2003
		NO 20031266 A	13-05-2003
		NZ 524803 A	24-09-2004
		PL 361707 A1	04-10-2004
		SK 4982003 A3	04-05-2004
		WO 0224702 A1	28-03-2002
		WO 0200617 A2	03-01-2002
		US 2004176324 A1	09-09-2004
		US 2002173445 A1	21-11-2002
		AU 1560902 A	08-01-2002
		BR 0111869 A	23-09-2003
		CA 2413683 A1	03-01-2002
		CN 1443187 T	17-09-2003
		CZ 20024250 A3	15-10-2003
		EP 1299385 A2	09-04-2003
		HU 0303165 A2	29-12-2003
		JP 2004515462 T	27-05-2004
		NO 20026167 A	20-12-2002
		WO 0200653 A2	03-01-2002
		US 2003114420 A1	19-06-2003
		US 2004077606 A1	22-04-2004

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

BEST AVAILABLE COPY

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

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